INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F02D41/40 F02M F02M57/02 F02M59/10 F02M63/02 F02M47/02 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) FO2D F02M Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category 9 Relevant to claim No. Α WO 00/55496 A (ROBERT BOSCH GMBH; MAHR, 1 - 13BERND; KROPP, MARTIN; MAGEL, HANS-CHRISTOPH;) 21 September 2000 (2000-09-21). cited in the application the whole document Α US 2003/150426 A1 (TANABE KEIKI ET AL) 1,13 14 August 2003 (2003-08-14) the whole document ·A US 2003/213470 A1 (KOHKETSU SUSUMU ET AL) 1,13 20 November 2003 (2003-11-20) the whole document Α WO 2004/007946 A (TOYOTA JIDOSHA KABUSHIKI 1,13 KAISHA; HOTTA, YOSHIHIRO; WAKISAKA, YOSHIFUMI) 22 January 2004 (2004-01-22) Χ Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date *L¹ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled in the art. 'O' document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the International search Date of mailing of the international search report 29 June 2005 22/07/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL. - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Wagner, A

INTERNATIONAL SEARCH REPORT

onal Application No PCT/IB2005/001144

Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Today	
Calegory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
	& US 2004/194756 A1 (HOTTA YOSHIHIRO ET AL) 7 October 2004 (2004-10-07) the whole document		
•			

INTERNATIONAL SEARCH REPORT

mormation on patent family members

PCT/IB2005/001144

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0055496	A 21-09-2000	DE 19910970 A1 WO 0055496 A1 DE 50010339 D1 EP 1078160 A1 JP 2002539372 T US 6453875 B1	28-09-2000 21-09-2000 23-06-2005 28-02-2001 19-11-2002 24-09-2002
US 2003150426	A1 14-08-2003	JP 2003148220 A BR 0206893 A DE 10253404 A1	21-05-2003 10-08-2004 03-07-2003
US 2003213470	A1 20-11-2003	JP 2003322050 A CN 1455080 A DE 10318433 A1	14-11-2003 12-11-2003 20-11-2003
WO 2004007946	A 22-01-2004	JP 2004044494 A EP 1522719 A1 WO 2004007946 A1 US 2004194756 A1	12-02-2004 13-04-2005 22-01-2004 07-10-2004
US 2004194756	A1 07-10-2004	JP 2004044494 A EP 1522719 A1 WO 2004007946 A1	12-02-2004 13-04-2005 22-01-2004